

Bridge Inspection									
Bridge File Number	02197 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1979/1979				Lot No.	2			
Bridge or Town Name	RED EARTH CR				Inspector Name	Brian Pientsch			
Located Over	TRIBUTARY TO WABASCA RIVER, 8.10.18.6, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	88:12 C1 40.634				Assistant Name	Clem Guenette			
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Jun-2012			
Legal Land Location	NW SEC 27 TWP 96 RGE 9 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:22:37, 57:21:35				Data Entry Date	06-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA02				Review Date	04-Nov-2012			
Clear Roadway/Skew	10.1 /				Dept. Reviewer Name	David Morrison			
AADT/Year	180 / 2011 (A)				Dept. Review Date	15-Jan-2013			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	300								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> Primary Span		

Posting Information									
Required Load Posting (t)	Single		Semi		Truck Train				
Posted Loading (t)	Single		Semi		Truck Train				
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Missing hazard marker NE corner.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	NOT CONNECTED TO BRIDGERAIL Insufficient posts and length.				
Vertical Alignment			8	8					
Roadway Width (m)	10.800								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	30.400								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage			5	5					
Approach Road General Rating			8	8					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 6.1-9.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	70	0	0	0	
Now	82.0	0.0	0.0	0.0	
Wearing Surface			X	X	20mm gap @ S2G3 & S2G4
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			5	5	Based on 30% visibility.
Deck Rideability			7	7	
Deck Joints			N	N	Covered with gravel.
Bump (Y/N)		No			
Deck Drainage			4	5	Gravel on deck. No drains
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Chipped ends every span.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			6	6	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			8	8	
Last Complete Inspection Date		12-Jun-2012			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 27)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			8	8	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1000)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels			4	4		
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls			5	5	Sheeting not low enough both abuts. -fill not leaking through.	
Greatest Height (m)		2.14				
Wingwalls			6	6	Notched for scabs.	
(Total Number of Bearing Piles : 10:10)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles			5	5		
Paint/Coating			X	X		
Abutment Stability			4	4	Caps @ both abuts rolling, A1 cap leaning 140m over cap and sub cap.	
Scour/Erosion			5	5		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels			5	5		
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 10:10)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles			5	4		
Greatest Height (m)		4.30				
Bracing/Struts/Sheathing			6	6		
Nose Plate			X	X		
(Poor splice at pier 1 pile 2. Split piles banded.)-07-Nov-2008						
Pier 1 Pile 2 groutedf sleeve repair.						
-10mm crack P1P3-photo						
-25mm crack P2P6-photo						
-Splinter on P1P8, banded @ top only.-photo						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		5	5	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Install hazard marker NE corner.					
OTHER ACTION	2012	Tar removal - and fill lift pockets with grout.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	64.1/64.1	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor abutment stability.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	12-Mar-2014		Previous Inspection Date	05-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							